

Ultrasonic standing-wave atomizer arrangement

Abstract

The invention relates to an ultrasonic standing-wave atomizer arrangement 10, 40, 50, 60, 70, 80 for producing a paint spray mist for painting a workpiece, with a sonotrode 12, 48 and with a component 14, 46 arranged lying opposite the sonotrode 12, 48. A standing ultrasonic field is formed in the intermediate space between the sonotrode 12, 48 and the component 14 in the case of operation. A paint-feeding device 29, by means of which paint can be fed into the vicinity of a maximum of the sound particle velocity of the ultrasonic field, is provided. The paint-feeding device has in the region of the standing ultrasonic field at least two pieces of pipe 30, 31, 32; 42, 43, 44 for discharging paint, at least two of the pieces of pipe 30, 31, 32; 42, 43, 44 being arranged in the region of a selected maximum of the sound particle velocity of the standing ultrasonic field.

Significant figure: Figure 1